## (19) World Intellectual Property Organization International Bureau





(43) International Publication Date 11 January 2001 (11.01.2001)

**PCT** 

## (10) International Publication Number WO 01/02516 A1

(51) International Patent Classification7:

C10L 1/32

(21) International Application Number: PCT/EP99/04607

(22) International Filing Date:

2 July 1999 (02.07.1999)

(25) Filing Language:

English

(26) Publication Language:

English

- (71) Applicant (for all designated States except US):
  CONSORZIO INTERUNIVERSITARIO PER LO
  SVILUPPO DEI SISTEMI A GRANDE INTERFASE
  C.S.G.I. [TT/IT]; Universita' Degli Studi, Piazza S. Marco,
  4, I-50121 Firenze (IT).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): BAGLIONI, Piero [IT/IT]; Via di Mimmole, 192/a, I-50010 Fiesole (IT). FRATINI, Emiliano [IT/IT]; Via S. D'Acquisto, 3, I-59100 Prato (IT). RICCERI, Riccardo [IT/IT]; Via Baldovini, 19, I-50126 Firenze (IT). SARTI, Giuseppe [IT/IT]; Via D.M. Manni, 45, I-50135 Firenze (IT). CHIARAMONTI, David [IT/IT]; Via V. Emanuele, 191, I-50134 Firenze (IT).

- (74) Agent: GERVASI, Gemma; Notarbartolo & Gervasi S.p.A., Corso di Porta Vittoria, 9, I-20122 Milan (IT).
- (81) Designated States (national): AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

## Published:

- With international search report.

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

02516 A1

(54) Title: ENGINE FUELS CONSISTING OF AN EMULSION COMPRISING MINERAL AND/OR NATURAL OILS, THEIR PREPARATION AND USE IN INTERNAL COMBUSTION ENGINE

(57) Abstract: The present invention refers to a fuel for internal combustion engines consisting of emulsions of pyrolysis liquids, natural and/or mineral oils with emulsifiers and possibly co-emulsifiers capable of forming oil-in-water, bicontinuous or water-in-oil emulsions. The invention refers also to the use of the above said fuels in internal combustion engines.